

DERWENT-ACC-NO: 2003-150185

DERWENT-WEEK: 200525

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TITLE: Hydrogel adhesive for absorbent/functional-  
article for skin-attachment, comprises preset amount of  
cross-linked hydrophilic polymer having strong and weak-acid  
monomers, water soluble non-ionic humectant and water

INVENTOR: GOLDMAN, S A; ROMANO, M ; HUHN, W E

PATENT-ASSIGNEE: PROCTER & GAMBLE CO[PROC]

PRIORITY-DATA: 2001EP-0870071 (March 30, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES MAIN-IPC		
US 20050074482 A1	April 7, 2005	N/A
000 A61K 009/70		
EP 1245240 A1	October 2, 2002	E
018 A61L 024/04		
WO 200278756 A1	October 10, 2002	E
000 A61L 024/04		
WO 200278757 A1	October 10, 2002	E
000 A61L 024/04		
EP 1372747 A1	January 2, 2004	E
000 A61L 024/04		
AU 2002245694 A1	October 15, 2002	N/A
000 A61L 024/04		
AU 2002307039 A1	October 15, 2002	N/A
000 A61L 024/04		
JP 2004530008 W	September 30, 2004	N/A
049 C09J 201/00		
JP 2004536626 W	December 9, 2004	N/A
063 A61L 015/58		

DESIGNATED-STATES: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU  
LV MC MK  
NL PT RO SE SI TR AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO  
CR CU CZ  
DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP  
KR KZ LC

LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD  
 SE SG SI  
 SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW AT BE CH CY DE DK  
 EA ES FI  
 FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG  
 ZM ZW AE  
 AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
 EC EE ES  
 FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT  
 LU LV MA  
 MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM  
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 GR IE IT  
 KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW AL AT BE CH CY  
 DE DK ES  
 FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
US20050074482A1	Cont of	2002WO-US08141
March 15, 2002		
US20050074482A1	N/A	2003US-0634216
August 5, 2003		
EP 1245240A1	N/A	2001EP-0870071
March 30, 2001		
WO 200278756A1	N/A	2002WO-US10177
March 29, 2002		
WO 200278757A1	N/A	2002WO-US08141
March 15, 2002		
EP 1372747A1	N/A	2002EP-0757923
March 29, 2002		
EP 1372747A1	N/A	2002WO-US10177
March 29, 2002		
EP 1372747A1	Based on	WO 200278756
N/A		
AU2002245694A1	N/A	2002AU-0245694
March 15, 2002		
AU2002245694A1	Based on	WO 200278757
N/A		
AU2002307039A1	N/A	2002AU-0307039
March 29, 2002		
AU2002307039A1	Based on	WO 200278756
N/A		
JP2004530008W	N/A	2002JP-0577021
March 15, 2002		
JP2004530008W	N/A	2002WO-US08141
March 15, 2002		
JP2004530008W	Based on	WO 200278757

N/A

JP2004536626W  
March 29, 2002

N/A

2002JP-0577020

JP2004536626W  
March 29, 2002

N/A

2002WO-US10177

JP2004536626W

Based on

WO 200278756

N/A

INT-CL (IPC): A61F005/44, A61F013/00, A61F013/02, A61F013/15,  
A61F013/472, A61F013/49, A61F013/511, A61K007/00, A61K009/70,  
A61K047/30, A61L015/58, A61L024/00, A61L024/04, A61L027/00,  
C09J011/06, C09J133/00, C09J133/02, C09J201/00, C09J201/02

RELATED-ACC-NO: 2004-515964

ABSTRACTED-PUB-NO: EP 1245240A

BASIC-ABSTRACT:

NOVELTY - A hydrogel adhesive comprises (in weight%) cross-linked hydrophilic polymer (10-60), water soluble non-ionic humectant (5-80) and water (10-85).

The hydrophilic polymer comprises 1-15 mol% of strong acid monomer(s) (SAM) in salt form having pKa below 3 and 50-99 mol% of weak-acid monomer(s) (WAM) having pKa above 3. At least 50 mol% of WAM is in acid form and at least 5 mol% is in salt form.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are is also included for:

(1) A disposable human waste management device comprising a bag having an aperture and a flange surrounding the aperture. The flange has a wearer facing surface comprising the hydrogel adhesive and a garment facing surface;

(2) An absorbent article having wearer facing surface comprising the hydrogel adhesive; and

(3) A functional article for attachment to the skin, comprising the hydrogel adhesive.

USE - For use in disposable human waste management device, absorbent article and functional article such as cosmetic delivery article, pharmaceutical delivery article, decorative cosmetic articles, cleaning article, protective article, clothing, prosthesis, cold wraps, thermal wraps, hearing aids, ornamental articles, goggles and eye wear, for attachment to the mammalian skin.

ADVANTAGE - The hydrogel adhesive exhibits excellent attachment and painless removal properties, in excess moisture conditions, and very good compatibility with skin pH.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: HYDROGEL ADHESIVE ABSORB FUNCTION ARTICLE SKIN ATTACH COMPRISE

PRESET AMOUNT CROSS LINK HYDROPHILIC POLYMER STRONG WEAK ACID

MONOMER WATER SOLUBLE NON ION HUMECTANT WATER

DERWENT-CLASS: A14 A96 B07 D21 D22 F07 G03 P32 P34

CPI-CODES: A04-F01A; A11-C02; A12-V03A; A12-V04C; B04-C03; B05-A02; B10-E04C;

D08-B; D09-A; D09-C01; F04-C01; F04-E04; G03-B04;

CHEMICAL-CODES:

Chemical Indexing M2 \*01\*

Fragmentation Code

A313 A940 C101 C108 C550 C730 C801 C802 C804 C805

C807 M411 M424 M430 M740 M782 M904 M905 M910 N105

Q254 Q331

Specific Compounds

02020K 02020M

Registry Numbers

2020U

Chemical Indexing M2 \*02\*

Fragmentation Code

H4 H403 H483 H8 M280 M313 M321 M332 M343 M383

M391 M416 M424 M430 M620 M740 M782 M904 M905 M910

N105 Q254 Q331

Specific Compounds

00113K 00113M

Registry Numbers  
0113U

Chemical Indexing M1 \*03\*  
Fragmentation Code  
M423 M424 M430 M740 M782 M905 N105 Q254 Q331  
Specific Compounds  
A00I9K A00I9M

Chemical Indexing M6 \*04\*  
Fragmentation Code  
M905 Q254 Q331 R041 R046 R111 R301

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0113U; 2020U

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

018 ; G0442 G0339 G0260 G0022 D01 D12 D10 D26 D51 D53 D63 F41 F89  
D11 D58 D85 D86 F61 ; R03538 G0453 G0260 G0022 D01 D11 D10 D12

D26

D51 D53 D58 D60 D87 F62 F70 F93 ; R00446 G0282 G0271 G0260 G0022  
D01 D12 D10 D26 D51 D53 D58 D60 D83 F36 F35 ; R00460 G0306 G0271  
G0260 G0022 D01 D12 D10 D26 D51 D53 D58 D60 D84 F36 F35 ; H0011\*R  
; S9999 S1365 ; M9999 M2073 ; P0088

Polymer Index [1.2]

018 ; ND01 ; ND04 ; Q9999 Q6644\*R ; B9999 B3407 B3383 B3372 ;  
B9999  
B4751 B4740 ; Q9999 Q8015 Q7987 ; Q9999 Q9176 Q9165 ; B9999 B4488  
B4466 ; Q9999 Q7294 ; Q9999 Q9370 ; Q9999 Q8004 Q7987

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2003-039026  
Non-CPI Secondary Accession Numbers: N2003-118544